## We claim:

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- 1. A process comprising:
  - (a) spinning molten poly(trimethylene terephthalate) polymer having a number average molecular weight of at least about 26500 and a melt viscosity of at least about 350 Pascals at 250°C and 48.65 per second shear rate;
  - (b) converging the filaments into yarn;
  - (c) cooling the filaments; and

drawing the filaments at a speed of greater than 3000 meters per minute to produce filaments having a filament denier greater than 1 and yarn having a yarn denier greater than 210.

- 2. The process of claim 1, wherein the number average molecular weight is from about 26500 to about 50000.
- 3. The process of claim 1, wherein the number average molecular weight is from about 27500 to about 45000.
- 4. The process of claim 1, wherein the number average molecular weight is from about 29000 to about 40000.
  - 5. The process of claim 1, wherein the melt viscosity is from about 350 to about 1000 Pascals at 250°C and 48.65 per second shear rate.
- 25 6. The process of claim 1, wherein the melt viscosity is from about 400 to about 900 Pascals at 250°C and 48.65 per second shear rate.
  - 7. The process of claim 1, wherein the melt viscosity is from about 450 to about 800 Pascals at 250°C and 48.65 per second shear rate.
  - 8. The process of claim 1, wherein the melt viscosity is from about 500 to about 700 Pascals at 250°C and 48.65 per second shear rate.
  - 9. The process of claim 1, wherein the filament denier is at least 3.

- 10. The process of claim 1, wherein the filament denier is at least 10.
- 11. The process of claim 1, wherein the filament denier is at least 15.

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- 12. The process of claim 1, wherein the yarn denier is at least 250.
- 13. The process of claim 1, wherein the yarn denier is at least 500.
- 10 14. The process of claim 1, wherein the yarn denier is at least 1000.
  - 15. The process of claim 1, wherein the filaments are drawn at a speed of greater than 3500 meters per minute.
- 15 16. The process of claim 1, wherein the filaments are drawn at a speed of greater than 4000 meters per minute.
  - 17. The process of claim 1, wherein the filaments are drawn at a speed of greater than 5000 meters per minute.

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- 18. The process of claim 1, wherein the filaments are drawn at a speed of at least 5100 meters per minute.
- 19. The process of claim 1, wherein the filaments are drawn at a speed of at least5500 meters per minute.
  - 20. The process of claim 1, further comprising coating the filaments with a spin finish and optionally preintermingling the filaments.
- 30 21. The process of claim 1, further comprising bulking the drawn filaments.
  - 22. The process of claim 21, further comprising entangling the filaments.

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- 23. The process of claim 21, wherein the drawn filaments are bulked to form 3-dimensional curvilinear crimp therein.
- 24. The process of claim 23, wherein the bulking comprises blowing and deforming the filaments in a hot-fluid jet bulking unit.
  - 25. The process of claim 1, wherein the filaments are drawn at a draw ratio of about 1.1 to about 4.0.
- 10 26. The process of claim 25, wherein the draw ratio is about 1.2 to about 3.0.
  - 27. The process of claim 25, wherein the draw ratio is about 1.4 to about 2.2.
- 28. The process of claim 1, wherein the poly(trimethylene terephthalate) has an intrinsic viscosity of about 0.95 to about 1.10.
  - 29. The process of claim 28, wherein the intrinsic viscosity is about 0.98 to about 1.04.
- 20 30. The process of claim 28, wherein the intrinsic viscosity is about 1.00 to about 1.02.
  - 31. A process comprising:
  - (a) extruding molten poly(trimethylene terephthalate) polymer having an intrinsic viscosity in the range of about 0.95 to about 1.10, a water content of less than about 100 ppm, a number average molecular weight of about 26500 to about 50000 and a melt viscosity of about 350 to about 1000 Pascals at 250°C and 48.65 per second shear rate through a spinneret to form filaments;
    - (b) converging the filaments into yarn;
    - (c) cooling the extruded filaments;
    - (d) coating the cooled filaments with a spin finish; optionally preintermingling the filaments;

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- (e) optionally heating the coated filaments to a temperature greater than the glass transition temperature of the polymer filaments, but less than about 200°C:
- (f) drawing the optionally heated filaments at a speed of greater than 3000 meters per minute to produce filaments having a denier greater than 1 and yarn having a yarn denier greater than 210;
- (g) bulking the drawn filaments such that the filaments are blown and deformed in three dimensions with a hot bulking fluid to form bulked continuous filaments having random 3-dimensional curvilinear crimp;
- (h) cooling the bulked continuous filaments to a temperature less than the glass transition temperature of the polymer filaments; and
- (i) entangling the bulked continuous filaments.
- 32. The process of claim 31, wherein the water content is less than about 50 ppm.
  - 33. The process of claim 31, wherein the water content is less than about 40 ppm.
  - 34. The process of claim 31, wherein the bulked continuous filaments of (g) are entangled before the cooling in (h).
  - 35. The process of claim 31, wherein the filaments are drawn at a speed of at least 3000 meters per minute.
- 36. The process of claim 31, wherein the filaments are drawn at a speed of greater than about 3500 meters per minute.
  - 37. The process of claim 31, wherein the filaments are drawn at a speed of at least about 4000 meters per minute.
- 30 38. The process of claim 31, wherein the filaments are drawn at a speed of at least 5000 meters per minute.
  - 39. The process of claim 31, wherein the filaments are drawn at a speed of at least 5100 meters per minute.

- 40. The process of claim 31, wherein the filaments are drawn at a speed of at least 5500 meters per minute.
- 5 41. The process of claim 31, further comprising ply-twisting and heat setting the filaments into yarn.
  - 42. Carpet made from the ply-twisted, heat-set poly(trimethylene terephthalate) yarn of claim 41.